Applicant: Satoshi Seo et al. Attorney's Docket No.: 12732-0220001 / US7048

Serial No.: 10/801,113
Filed: March 16, 2004

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Amendments to the Drawings

The attached replacement sheet of drawings includes changes to Fig. 6 and replaces the original sheet including Fig. 6.

In Figure 6, "PVK" is replaced with "CBP."

Attachments following last page of this Amendment:

Replacement Sheet (1 page)
Annotated Sheet Showing Change(s) (1 page)

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REMARKS

Claims 1-3 and 5-27 are pending with claims 1-3 and 5-8 being independent. Claims 5-7 have been withdrawn, leaving claims 1-3 and 8-27 under consideration with claims 1-3 and 8 being independent. Claims 28-32 have been cancelled, and claim 8 has been amended. The specification and drawings also have been amended. The amendments are supported by the specification as originally filed. No new matter has been introduced.

Applicant acknowledges with appreciation the allowance of claims 1-3 and 9-27.

AMENDMENTS TO THE SPECIFICATION AND DRAWINGS

In the paragraph beginning on page 25, line 16, the electroluminescent layer in Figure 3 was incorrectly referred to with reference number 202. This paragraph has been amended to correctly refer to the electroluminescent layer in Figure 3 with reference number 302, as shown in Figure 3.

In the paragraph beginning on page 25, line 18, the light-emitting layer in Figure 3 was incorrectly referred to with reference number 313. This paragraph has been amended to correctly refer to the light-emitting layer in Figure 3 with reference number 311, as shown in Figure 3.

In the paragraph beginning on page 36, line 23, structural formula (15) was incorrectly identified as poly(n-vinyl carbazole) (PVK). The correct name for the molecule shown by structural formula (15) is 4,4'-bis(N-carbazolyl)-1,1'-biphenyl (CBP), as indicated by the product detail page for Product No. 660124 from Sigma-Aldrich (see Attachment 1). This paragraph, which refers to Figure 6, has been amended to correct the chemical name of structural formula (15) from PVK to CBP. This change has also been made in Figure 6, in which the host material incorrectly identified as "PVK" has been amended to correctly identify the host material as "CBP."

No new matter has been introduced by these amendments.

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35 U.S.C. § 102 REJECTION OVER LAMANSKY

Claim 8 was rejected under 35 U.S.C. § 102(e) as anticipated by U.S. Patent Application Publication No. 2004/0062947 to Lamansky. Applicant disagrees with this rejection.

Independent claim 8 has been amended to recite that "an electroluminescent layer provided between said pair of electrodes" includes "a host material and a guest material, wherein each of said host material and said guest material is a compound having a skeleton represented by the general formula 14:

Formula 14

$$X_1$$
 X_2
 X_3
 \cdots (14)

wherein X_1 to X_3 , each of which may be the same or different, are individually a hydrogen atom, a halogen atom, a lower alkyl group, an alkoxy group, an acyl group, a nitro group, a cyano group, an amino group, a dialkylamino group, a diarylamino group, a vinyl group which may have a substituent, an aryl group which may have a substituent."

The Office Action states: "Lamansky et al. anticipates a device comprising a layer having PVK (polyvinylcarbazole) as a host and bis(carbazol-9-yl) biphenyl (CBP) as a guest material (see par. 191-192, page 20). Both carbazole-containing materials are within instant Formula (14) as currently defined." Office Action, at 3.

PVK, however, does not satisfy Formula 14 in claim 8. That is, Formula 14 is not a polymeric structure. As recited in claim 8, X₁ may be a "a hydrogen atom, a halogen atom, a lower alkyl group, an alkoxy group, an acyl group, a nitro group, a cyano group, an amino group, a dialkylamino group, a diarylamino group, a vinyl group which may have a substituent, an aryl group which may have a substituent, or a heterocyclic group which may have a substituent." PVK, shown below, does not satisfy any of these requirements for X₁.

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In fact, for, PVK with an average molecular weight of \sim 1,100,000 (see Attachment 2), n in the above structure would be over 5,000, and X_1 would represent an alkyl chain including over 10,000 carbon atoms and over 5,000 additional pendant carbazolyl groups. This does not meet the definition of "lower alkyl" as defined in the paragraph beginning on page 14, line 5 of the application.

Accordingly, claim 8 is not anticipated by Lamansky, and applicant respectfully requests removal of the 35 U.S.C. § 102(e) rejection of claim 8 over Lamansky.

CONCLUSIONS

All claims in the application are now in condition for allowance.

Fees are being paid concurrently herewith on the Electronic Filing System (EFS) by way of Deposit Account authorization. Please apply any other charges or credits to Deposit Account No. 06-1050, referencing Attorney Docket No. 12732-0220001.

Respectfully submitted,

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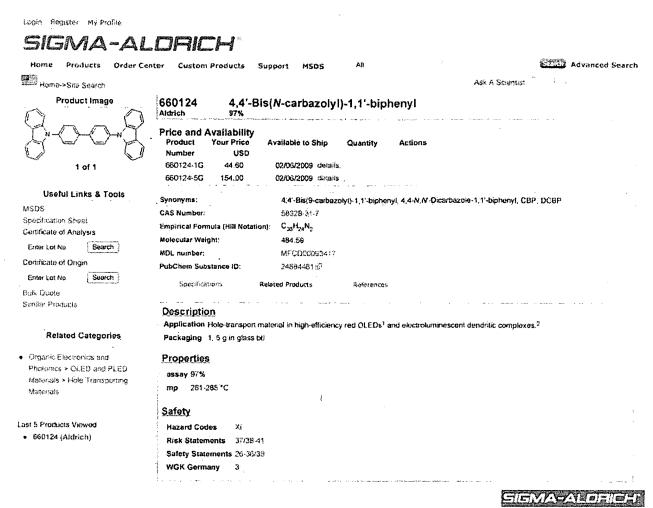
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ATTACHMENT 1



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ATTACHMENT 2

Login Register My Profile *SIGMA-ALDRICH* Home Products Order Center Custom Products Advanced Search Support Home-Sine Search Ask A Scientist Product Image 182605 Poly(9-vinylcarbazole) Aldrich average M_w ~1,100,000, powder **Price and Availability** Available to Ship Product Your Price Quantity Actions Number USD 182605-5G 75.00 02/06/2009 details 02/06/2009 details. 182605-25G 250.00 Synonyms: PVK 25067-59-8 CAS Number: Useful Links & Tools MFCD00134336 MDL number: MSDS Specifications Related Products References Specification Sheet Certificate of Analysis Description Enter Lot No. Packaging 5, 25 g in glass bil Certificate of Origin **Properties** Bulk Quote mol wt average M .. ~1,100,000 FT-IR Convensed Phase Senitar Prockets refractive index n20/D 1.683 transition temp $T_{\rm g}$ 220 °C More... 1.2 g/mL at 25 °C(lit.) density Related Categories Safety Organic Electrorise and WGK Germany 2 Photonics > OLED and PLED RTECS FE6225480 Materials > Polymer Hole Transport and Host Materials Last 5 Products Viewed • 182605 (Aldrich) • 368350 (Aldrich) SIGNA-AUDRICH

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Amendment in Reply to Office action of November 12, 2008
Annotated Sheet Showing Change(s)

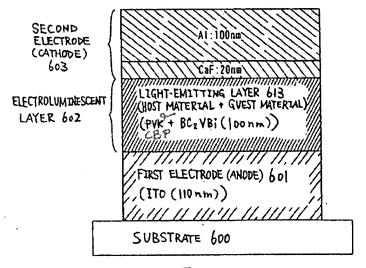


FIG. 6